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PTO/SB/01 (12-97)  
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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### DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of the application is not designated in the prior United States or PCT international application in the manner provided by the first paragraph of 31 U.S.C. 112. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☒ Customer Number 021971

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer  
Number Bar  
Code Label here

Name	Registration Number	Name	Registration Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer Number  
or Bar Code Label

OR ☒ Correspondence address below

Name	Kenta Suzue						
Address	Wilson Sonsini Goodrich & Rosati						
Address	650 Page Mill Road						
City	Palo Alto	State	CA	ZIP	94304		
Country	U.S.	Telephone	650-493-9300		Fax	650-493-6811	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))				Family Name or Surname			
Manish				Pandey			
Inventor's Signature						Date	01/22/04
Residence: City	San Jose	State	CA	Country	US	Citizenship	Indian
Post Office Address	1709 Fumia Drive, San Jose, CA 95131						
Post Office Address							
City	San Jose	State	CA	ZIP	95131	Country	US

☒ Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto:

<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet Page <u>1</u> of <u>2</u>
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Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any))				Family Name or Surname			
Yung-Te				Lai			
Inventor's Signature:				Date			
Residence: City	Cupertino	State	CA	Country	US	Citizenship	US
Post Office Address		1455 Asher Lane, Cupertino, CA 95014					
Post Office Address							
City	Cupertino	State	CA	ZIP	95014	Country	US
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any))				Family Name or Surname			
Bret				Starkowski			
Inventor's Signature		<i>Bret Starkowski</i>		Date			
City	Marlborough	State	MA	Country	US	Citizenship	US
Post Office Address		718 Concord Road, Marlborough, MA 01752					
Post Office Address							
City	Marlborough	State	MA	ZIP	01752	Country	US
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any))				Family Name or Surname			
Kel-Yong				Khoo			
Inventor's Signature				Date			
City	Berkeley	State	CA	Country	US	Citizenship	Singapore
Post Office Address		1811 Posan Ave., Berkeley, CA 94707					
Post Office Address							
City	Berkeley	State	CA	ZIP	94707	Country	US

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.



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PTO/SB/02A (3-97)  
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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet Page <u>1</u> of <u>2</u>
--------------------	--

<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
<b>Given Name (first and middle (if any))</b>				<b>Family Name or Surname</b>			
Yung-Te				Lai			
<b>Inventor's Signature</b>				<b>Date</b>	1/22/04		
<b>Residence: City</b>	Cupertino	<b>State</b>	CA	<b>Country</b>	US	<b>Citizenship</b>	US
<b>Post Office Address</b>	1455 Aster Lane, Cupertino, CA 95014						
<b>Post Office Address</b>							
<b>City</b>	Cupertino	<b>State</b>	CA	<b>ZIP</b>	95014	<b>Country</b>	US
<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
<b>Given Name (first and middle (if any))</b>				<b>Family Name or Surname</b>			
Bret				Siarowski			
<b>Inventor's Signature</b>				<b>Date</b>			
<b>City</b>	Marlborough	<b>State</b>	MA	<b>Country</b>	US	<b>Citizenship</b>	US
<b>Post Office Address</b>	718 Concord Road, Marlborough, MA 01752						
<b>Post Office Address</b>							
<b>City</b>	Marlborough	<b>State</b>	CA	<b>ZIP</b>	01752	<b>Country</b>	US
<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
<b>Given Name (first and middle (if any))</b>				<b>Family Name or Surname</b>			
Kei-Yong				Khoo			
<b>Inventor's Signature</b>				<b>Date</b>	1-22-04		
<b>City</b>	Berkeley	<b>State</b>	CA	<b>Country</b>	US	<b>Citizenship</b>	Singapore
<b>Post Office Address</b>	1611 Posen Ave., Berkeley, CA 94707						
<b>Post Office Address</b>							
<b>City</b>	Berkeley	<b>State</b>	CA	<b>ZIP</b>	94707	<b>Country</b>	US

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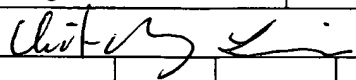
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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> <b>Supplemental Sheet</b> <b>Page <u>2</u> of <u>2</u></b>
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<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
<b>Given Name (first and middle (if any))</b>				<b>Family Name or Surname</b>			
Chih-Chang				Lin			
<b>Inventor's Signature</b>				<b>Date</b>	8/17/06		
<b>Residence: City</b>	San Jose	<b>State</b>	CA	<b>Country</b>	US	<b>Citizenship</b>	Taiwan
<b>Post Office Address</b>	3221 Lakebrook Court, San Jose, CA 95148						
<b>Post Office Address</b>							
<b>City</b>	San Jose	<b>State</b>	CA	<b>ZIP</b>	95148	<b>Country</b>	US
<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
<b>Given Name (first and middle (if any))</b>				<b>Family Name or Surname</b>			
<b>Inventor's Signature</b>				<b>Date</b>			
<b>City</b>		<b>State</b>		<b>Country</b>		<b>Citizenship</b>	
<b>Post Office Address</b>							
<b>Post Office Address</b>							
<b>City</b>		<b>State</b>		<b>ZIP</b>		<b>Country</b>	
<b>Name of Additional Joint Inventor, if any:</b>				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
<b>Given Name (first and middle (if any))</b>				<b>Family Name or Surname</b>			
<b>Inventor's Signature</b>				<b>Date</b>			
<b>City</b>		<b>State</b>		<b>Country</b>		<b>Citizenship</b>	
<b>Post Office Address</b>							
<b>Post Office Address</b>							
<b>City</b>		<b>State</b>		<b>ZIP</b>		<b>Country</b>	

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Patent  
CA7038422001

**POWER OF ATTORNEY  
AND REVOCATION OF PREVIOUS POWERS  
By Assignee**

Cadence Design Systems, Inc., assignee(s) of the application for United States Letters Patent for an improvement in

**METHOD AND SYSTEM FOR LOGIC EQUIVALENCE CHECKING**

by: Manish Pandey, Yung-Te Lai, Bret Slarkowski, Kei-Yong Khoo, Chih-Chang Lin

the specification of which:

- ☐ is filed herewith, OR  
☒ was filed on September 4, 2003, having U.S. Patent Application Serial No. 10/656,801.

does hereby appoint as my attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office, and in countries other than the United States, and to do all things necessary or appropriate therefor before any competent International Authorities in connection with any international patent application(s) corresponding to the above-identified application, and hereby revokes all powers of attorney previously given and appoints all of the registered practitioners identified by:

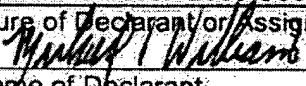
**Customer Number 23639**

Please direct all inquiries to **Peter C. Mei**, at the above Customer Number.

I, the undersigned, declare that I have reviewed copies of the documentary evidence establishing chain of title to the patent application identified above from the inventor(s) to the assignee(s), which:

- ☐ is filed for recordation herewith; or  
☐ was recorded at Reel \_\_\_\_\_, Frame \_\_\_\_\_; or  
☒ has been sent for recordation under separate cover, copy attached herewith.

To the best of the undersigned's knowledge and belief, title is in the assignee(s) identified above. Furthermore, the undersigned is empowered to sign this document on behalf of the assignee(s).

Full Name of Assignee: <u>Cadence Design Systems, Inc.</u>	
Post Office Address: <u>2655 Seely Avenue, San Jose, California 95134</u>	
Signature of Declarant/Assignee: 	Date: <u>3-25-04</u>
Full Name of Declarant: If Other Than Assignee: <u>Michael L. Williams</u>	
Title of Declarant: <u>Vice President and Associate General Counsel</u>	
Address of Declarant: <u>2655 Seely Avenue, San Jose, CA 95134</u>	

## ASSIGNMENT OF APPLICATION

Docket Number 19329-719

Whereas, the undersigned:

- |                                   |                                  |                                     |                                   |                                    |
|-----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| 1. PANDEY, Manish<br>San Jose, CA | 2. LAI, Yung-Te<br>Cupertino, CA | 3. SIARKOWSKI, Bret<br>Marlboro, MA | 4. KHOO, Kei-Yong<br>Berkeley, CA | 5. LIN, Chih-Chang<br>San Jose, CA |
|-----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|------------------------------------|

hereinafter termed "Inventors", have invented certain new and useful improvements in

**Method And System For Logic Equivalence Checking**

- ☒ for which an application for United States Patent was filed on 09/04/2003, Application No. 10/656,801.  
☐ for which a United States Patent issued on \_\_, U.S. Patent No. \_\_.

WHEREAS, Cadence Design Systems, Inc., having a place of business at 2655 Seely Ave., San Jose, CA 95134, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

- Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
- The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.
- Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: 01/22/04Manish Pandey  
Manish PandeyDate: 01/22/04Yung-Te Lai  
Yung-Te LaiDate: 01/22/04Bret Siarkowski  
Bret SiarkowskiDate: 01/22/04Kei-Yong Khoo  
Kei-Yong KhooDate: 01/22/04Chih-Chang Lin  
Chih-Chang Lin

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ASSIGNMENT OF APPLICATION

Docket Number 19329-719

Whereas, the undersigned:

- |                                   |                                  |                                     |                                   |                                    |
|-----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|------------------------------------|
| 1. PANDEY, Manish<br>San Jose, CA | 2. LAI, Yung-Tc<br>Cupertino, CA | 3. SIARKOWSKI, Bret<br>Marlboro, MA | 4. KHOO, Kei-Yong<br>Berkeley, CA | 5. LIN, Chih-Chang<br>San Jose, CA |
|-----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|------------------------------------|

hereinafter termed "Inventors", have invented certain new and useful improvements in

Method And System For Logic Equivalence Checking

- ☒ for which an application for United States Patent was filed on 09/04/2003, Application No. 10/656,801.  
☐ for which a United States Patent issued on \_\_\_, U.S. Patent No. \_\_\_.

WHEREAS, Cadence Design Systems, Inc., having a place of business at 2655 Seely Ave., San Jose, CA 95134, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below:

Date: \_\_\_\_\_

Manish Pandey

Date: \_\_\_\_\_

Yung-Tc Lai

Date: 1/26/04

Bret Siarkowski

Date: \_\_\_\_\_

Kei-Yong Khoo

Date: \_\_\_\_\_

Chih-Chang Lin